

United States of America
 Department of Transportation — Federal Aviation Administration
Supplemental Type Certificate

Number SA3485WE

This certificate, issued to Riley Aircraft Corporation
 2206 Palomar Airport Road
 Carlsbad, California 92008

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air Regulations.* *Certification Basis is set forth in Aircraft Specification 3A25

Original Product — Type Certificate Number: 3A25
Make: Cessna
Model: 340

Description of Type Design Change: Installation of Continental TS10-520-N or TS10-520-NB engines and increase of takeoff power to 310 HP in accordance with instructions contained in Riley FAA Approved Report No. RAC 340-2 dated June 27, 1977, or later FAA approved revision. See Page 5 of 5 for appropriate FAA Approved Airplane Flight Manual Supplement.

Limitations and Conditions: This approval of this modification applies to the above noted airplane model series only. This approval should not be extended to other specific airplanes of this model series on which other previously approved modifications are incorporated, unless it is determined that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft. See Pages 3 through 5 for further Limitations and Conditions.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: June 28, 1977

Date issued:

Date of issuance: September 29, 1977

Date amended: November 18, 1977,
 April 26, 1993

By direction of the Administrator



Signature

Acting Manager, Propulsion Branch
 Los Angeles Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

Page 1 of 5 This certificate may be transferred in accordance with FAR 21.47.

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LIMITATIONS AND CONDITIONS: (cont.)

ENGINES 2 Teledyne Continental Motors TSIO-520-N or
2 Teledyne Continental Motors TSIO-520-NB

ENGINE LIMITS Maximum Continuous:
285 HP - 2700 RPM @ 34.4" MP S.L.
2700 RPM @ 34.4" MP 22,000 Ft.
2700 RPM @ 25.0" MP 30,000 Ft.

Takeoff: (5 minutes)
310 HP - 2700 RPM @ 38.0" MP S.L.
2700 RPM @ 38.0" MP 20,000 Ft.

PROPELLERS 2 McCauley 3AF32C87/82NC-4
Diameter: Maximum 78.0 inches
Minimum 77.0 inches
Pitch: Low 14.9° Feathered 82.6°
Measured at 30 inch station
Note: For aircraft modified prior to April 26, 1993 with
TSIO-520-N engines the minimum diameter limit is 74.0
inches.

OR

2 McCauley 3AF32C93/82NC-5.5
Diameter: Maximum 76.5 inches
Minimum 74.0 inches
Pitch: Low 14.9° Feathered 81.2°
Measured at 30 inch station.
Note: For aircraft modified prior to April 26, 1993 with
TSIO-520-N engines the minimum diameter limit is 75.0
inches.

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LIMITATIONS AND CONDITIONS: (cont.)

**ENGINE
INSTRUMENT
MARKINGS**

Fuel Flow:

Minimum Operation - 0 lb./hr (3.0 PSI) - Red Radial
Normal Operations - 10 lb./hr (3.5 PSI) to
185 lb./hr (20.0 PSI) - Green Arc
Maximum Operation - 190 lb./hr (21.7 PSI) - Red Radial

Manifold Pressure:

Normal Operating - 17.0" to 31.5" - Green Arc
Conditional Normal Operational - 31.5" to 34.0" - Narrow
Green Arc
2450 RPM mark @ 31.5"
2300 RPM mark @ 34.0"
Maximum Operating - 38.0" - Red Radial

**AIRSPPEED
INDICATOR
MARKINGS**

Minimum Control Speed (V_{mc}) - 86 KCAS -Red Radial

**REQUIRED
PLACARDS**

On Instrument Panel:

Alt. x	Maximum
1000 ft	Manpsr-In
20.0	38.0
22.0	35.2
24.0	32.3
26.0	29.8
28.0	27.4
30.0	25.0

When Propeller Model 3AF32C87/82NC-4 is used,
the following limitations placard must be displayed
on the Instrument Panel:

AVOID CONTINUOUS OPERATION
ABOVE 33 INCHES MANIFOLD
PRESSURE AND BELOW 2600 RPM

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LIMITATIONS AND CONDITIONS: (cont.)

**AIRPLANE
FLIGHT
MANUALS**

For aircraft modified on or after April 26, 1993, with either 2 Teledyne Continental Motors TSIO-520-N or TSIO-520-NB engines and 2 McCauley 3AF32C87/82NC-4 or 2 McCauley 3AF32C93/82NC-5.5 propellers Riley Aircraft Corporation FAA Approved Airplane Flight Manual Supplement No. 3 for Cessna 340, dated April 7, 1993, must be used.

Note: Riley Airplane Flight Manual Supplement No. 3 may be used in place of previously approved Riley Supplements for aircraft modified prior to April 26, 1993 per this Supplemental Type Certificate.

For aircraft modified prior to April 26, 1993, with 2 Teledyne Continental Motors TSIO-520-N engines and 2 McCauley 3AF32C87/82NC-4 propellers, Riley Aircraft Corporation FAA Approved Airplane Flight Manual Supplement For Cessna 340, dated November 8, 1977 may be used.

For aircraft modified prior to April 26, 1993, with 2 Teledyne Continental Motors TSIO-520-N engines and 2 McCauley 3AF32C93/82NC-5.5 propellers, Riley Aircraft Corporation FAA Approved Airplane Flight Manual Supplement For Cessna 340, dated September 29, 1977 may be used.

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Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.